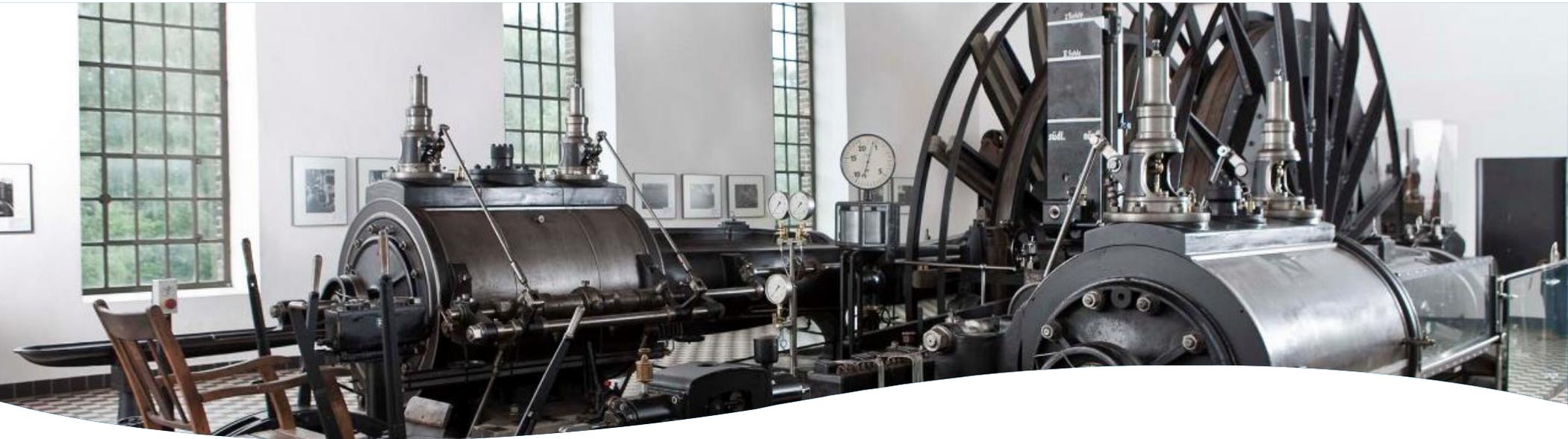


TÜV Rheinland Japan

OpenADR Certification Testing Service





About TÜV Rheinland Group

TÜV?

Technischer Technology

Überwachungs- Inspection

Verein Society

Head office: Cologne, Germany

Established in 1872 as a third-party organization for steam boiler inspection



TÜV Rheinland in world wide

20,000 employees in over 60 countries worldwide

Specialists, Auditors, Inspectors, Engineers to respond to the Safety and Security of a wide range of Industries



Japan
6 locations
400 employees



TÜV Rheinland Japan

TÜV Rheinland Japan

President Tobias Schweinfurter

Established 1983

Capital 370 million JPY

Number of Employees about 400

Annual sales 7,930 million JPY (FY2018)

TÜV Rheinland Japan is a member of the TÜV Rheinland Group, an international technical inspection agency. As a third-party testing organization, we have been providing services in Japan since 1978.



TÜV Rheinland Japan Test Facility



Technology Center: GTAC (Yokohama)



Technology Center: KTAC (Osaka)



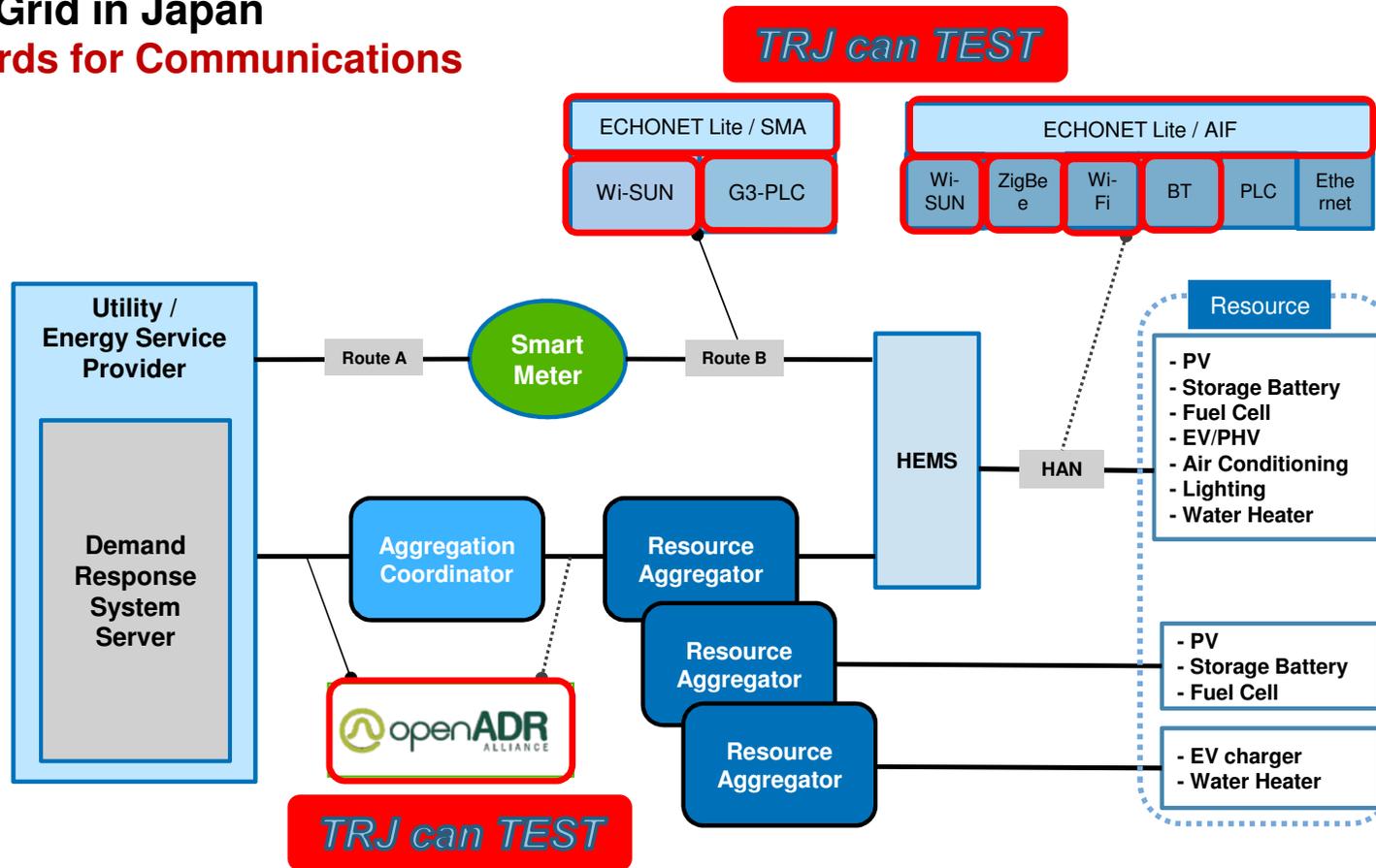
EMC lab. (Fukuoka)



OpenADR Certification Testing Service

TRJ's domestic Smart Grid related service status

Smart Grid in Japan Standards for Communications



OpenADR Certification Policy



Certification Policy Summary:

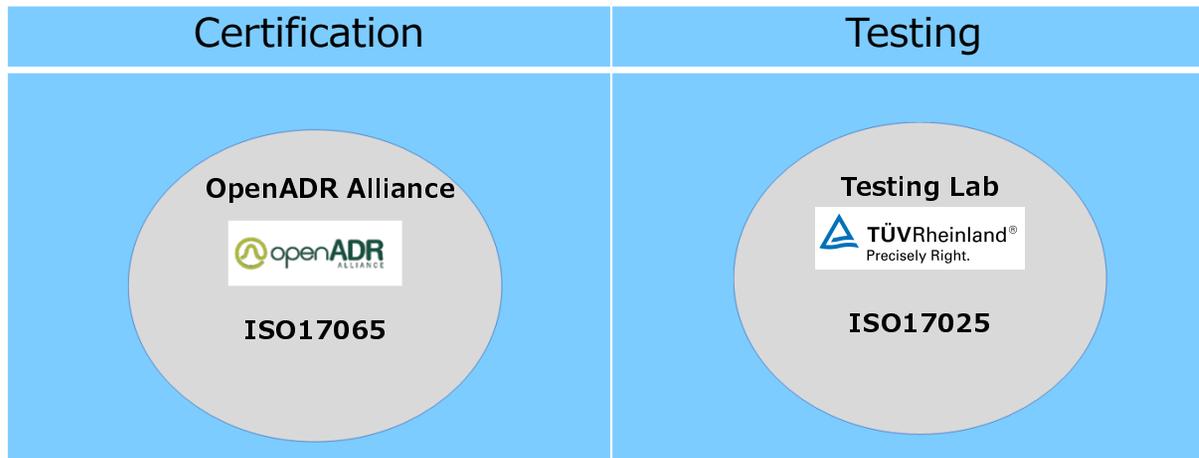
- To establish a certification program to ensure compliance and interoperability
- OpenADR 2.0 certification and testing policies, processes and procedures
- Virtual Top Node (VTN) and Virtual End Node (VEN) concepts
- VTN / VEN test methods and test tools
- OpenADR Logo License
- Profile compatibility
- Role of certification body and testing body
- Accredited Testing Lab
- Mandatory and Option feature
- Concept of certification/testing of the similar/identical products
- Concept of certification/testing of Updated Product

Refer Documents:

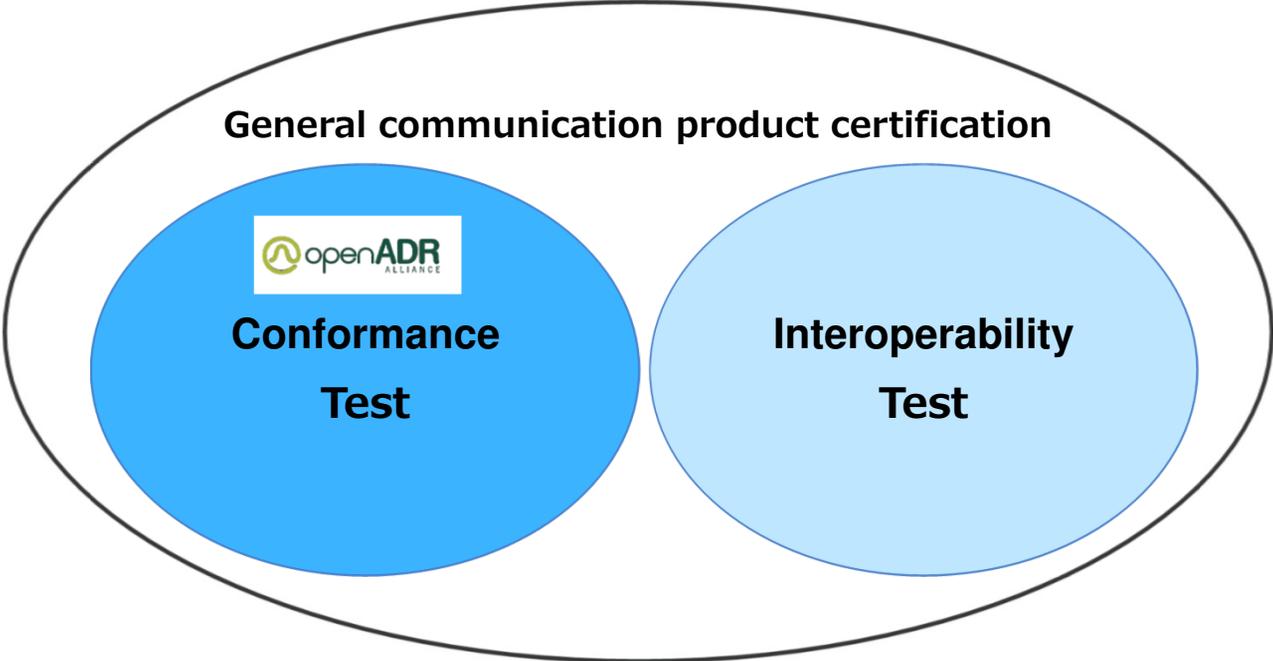
- OpenADR 2.0a/b Profile Specification
- OpenADR 2.0 Protocol Implementation Conformance Statement (PICS)
- OpenADR 2.0 Test Specification
- OASIS Energy Interoperation Specification
- OpenADR Certificate Policy

OpenADR Role of Certification Body and Testing Lab

- ❑ “Certification” is performed by the Certification Body (CB) or the OpenADR Alliance
Currently, there is no certification body (CB), and the OpenADR Alliance has all
- ❑ “Testing” is performed by a Testing Lab accredited by the OpenADR Alliance.
- ❑ TRJ is one such accredited Testing Lab.
- ❑ CB and Testing Lab comply with ISO17065 and ISO 17025

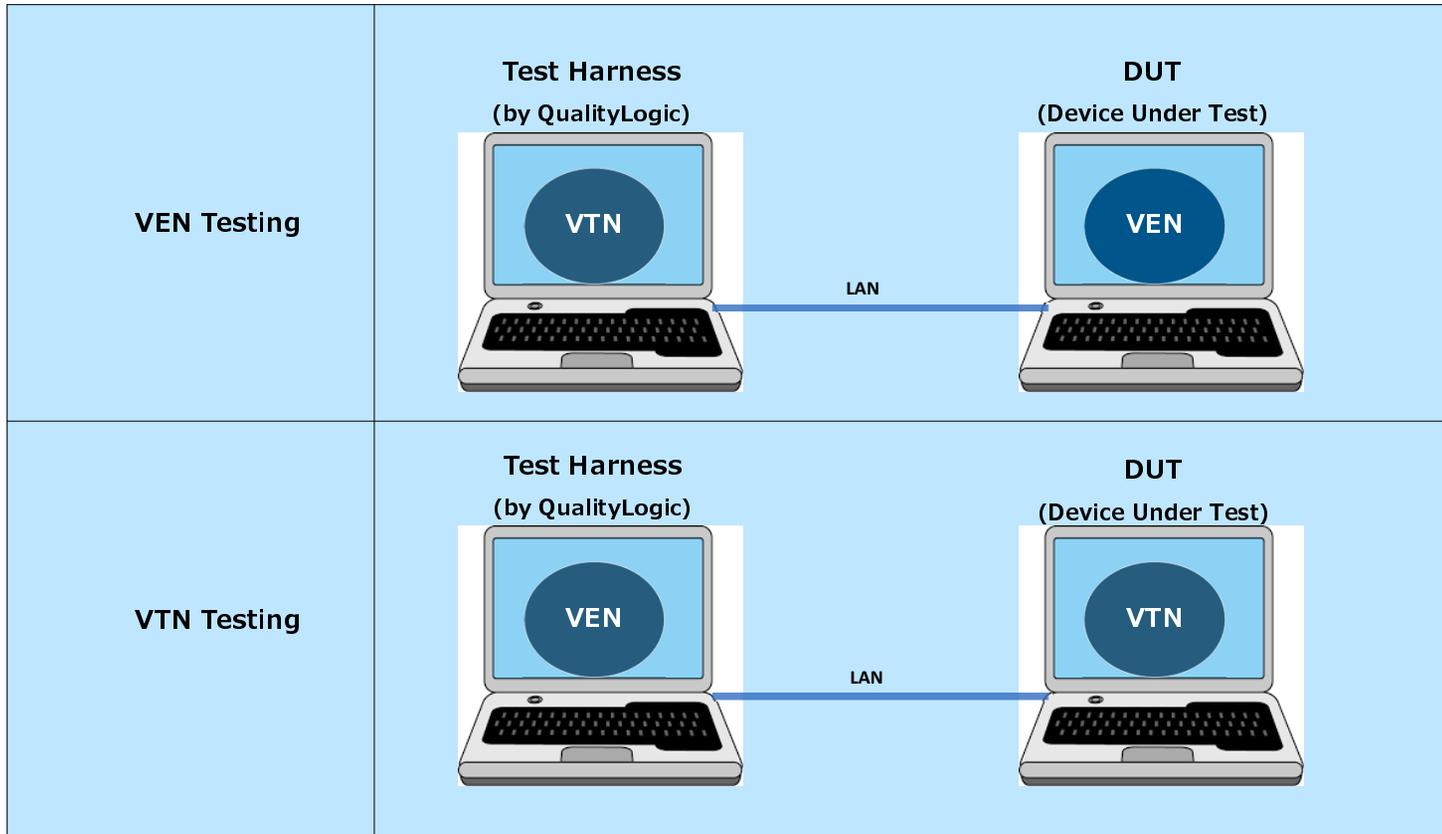


Requirement of OpenADR certification test



OpenADR covers only Conformance Test

OpenADR Certification Test Environment



Note)
If you want to perform a certification test in a real environment where the DUT is in the Cloud Server, please consult with Testing Lab.

Fee required for OpenADR Certification

(1) Member Fee

Pay membership fee as license to OpenADR Alliance

(2) Certification Fee

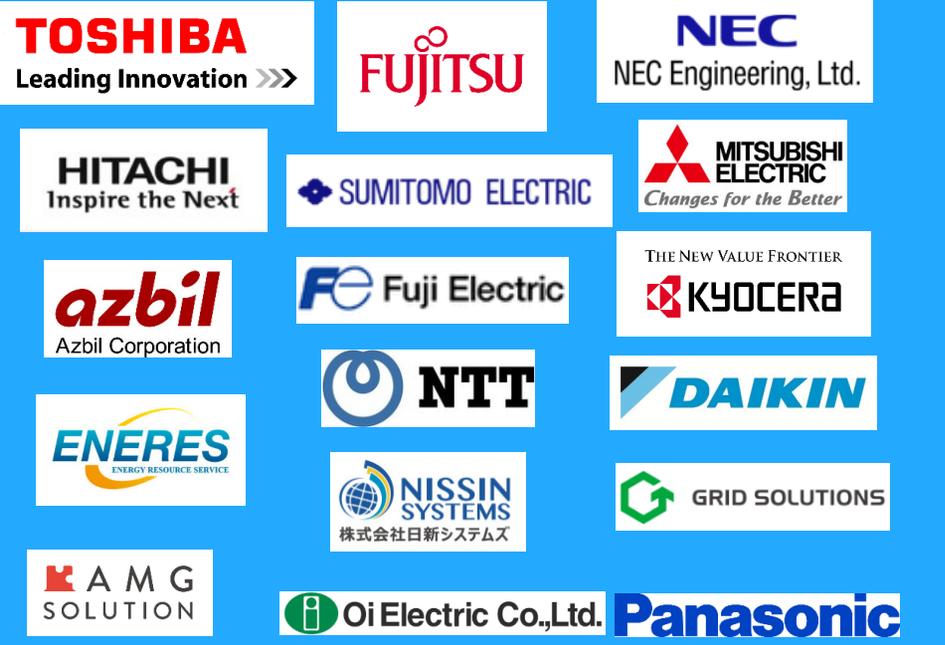
Pay the certification fee for the certification process by the OpenADR Alliance

(3) Test Fee

Pay the testing fee to accredited test lab

OpenADR Alliance Japanese members and certification status

October 2019, 20 Japanese companies, all contributors

Certified Member	Member
	
	

<https://products.openadr.org/>



TRJ OpenADR Certification Test Service

TRJ always provides certification tests based on the latest test specifications

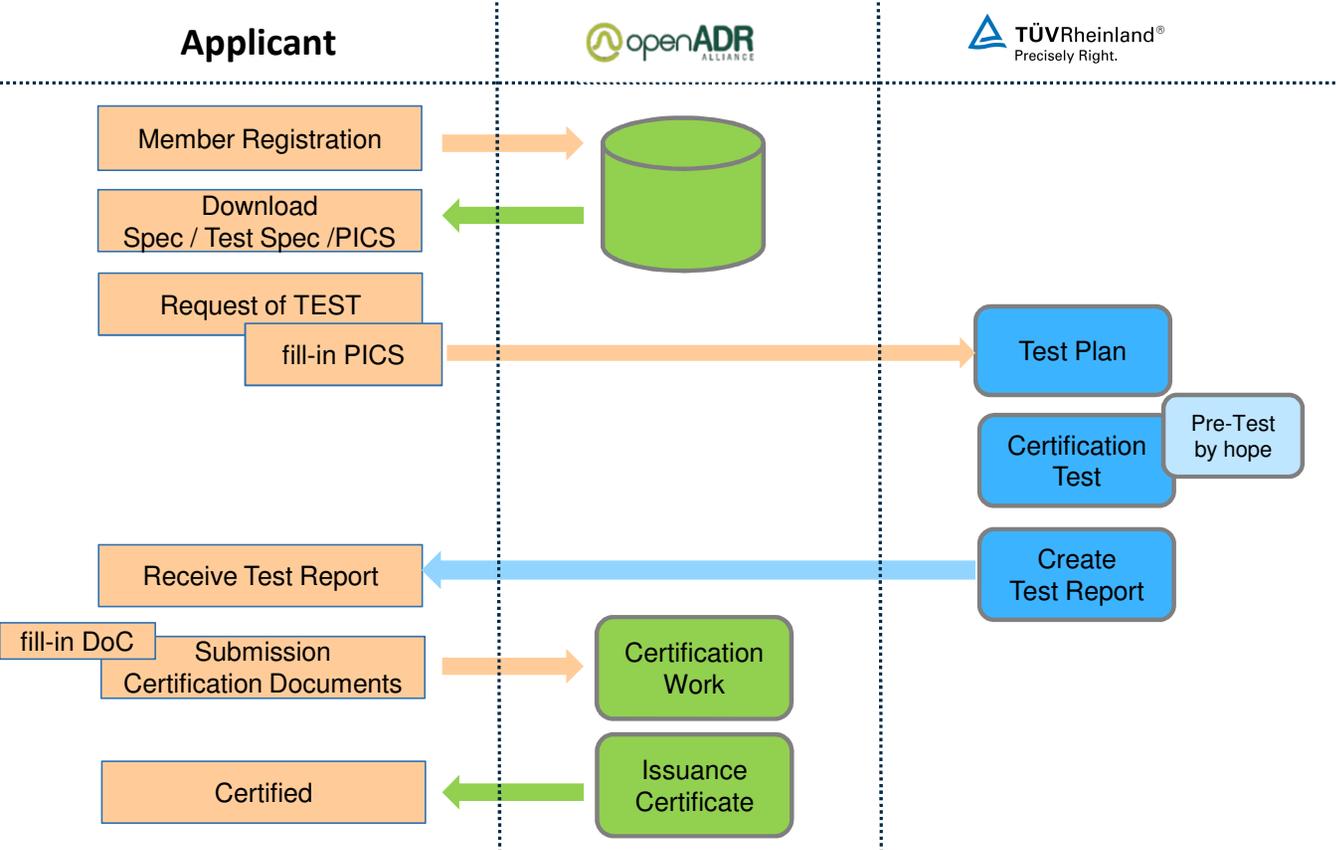
Certification Test	
Supported Profile	2.0a, 2.0b
Product Roles	VTN, VEN
Transports	Simple HTTP, XMPP(2.0b only)
Message Exchange Patterns	Pull, Push

- ### Pre-Test Service
- Before the certification test, you can test using the certification test tool
 - You can practice the actual certification test with the test engineer
 - You receive a technical consultation on certification testing

Features of TRJ's OpenADR Certification Test service

- ❑ Test in Japan (TÜV Yokohama Test Lab or On-site)
- ❑ Witness test
- ❑ Pre-test service
- ❑ Technical Support on certification test
- ❑ Certification Process support with OpenADR Alliance
- ❑ Real environment tests such as "Cloud environments"

OpenADR Certification Flow chart



Documents required for OpenADR certification

for Test	for Certification
<ul style="list-style-type: none"><input type="checkbox"/> Submit to : Testing Lab (TRJ)<input type="checkbox"/> Documents:<ol style="list-style-type: none">1) OpenADR Test Application Form<ul style="list-style-type: none">○ Fill in Applicant information and Product information2) PICS (Protocol Implementation Conformance Statement)<ul style="list-style-type: none">○ Fill in the application details required for the certification test○ TRJ creates a test plan based on PICS	<ul style="list-style-type: none"><input type="checkbox"/> Submit to : OpenADR Alliance<input type="checkbox"/> Documents:<ol style="list-style-type: none">1) Declaration of Conformity<ul style="list-style-type: none">○ Fill in Applicant information and Product information2) Test Report<ul style="list-style-type: none">○ Test Report delivered from TRJ3) PICS (Protocol Implementation Conformance Statement)<ul style="list-style-type: none">○ PICS submitted to TRJ for testing

OpenADR Certification Test Location and Contact Information

TUV Rheinland Japan Ltd.
Global Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku,
Yokohama 224-0021

Tel : (+81) 45-470-1850

<http://www.jpn.tuv.com>

e-mail: telecom-lab@jpn.tuv.com

